

APPARATUS AND METHOD FOR ESTIMATING AN EFFECTIVE CHANNEL AND APPARATUS AND METHOD FOR PROVIDING PILOT SEQUENCES

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A channel estimator for estimating an effective channel from a receive sequence, the receive sequence including a superposition of NT pilot sequences being transmittable from NT transmitting points through NT communication channels to a receiving point, wherein NT-1 pilot sequences are modulated versions of a first pilot sequence, wherein the effective channel comprises a superposition of the NT channels extending from the NT transmitting points to the receiving point, comprises a selector (101) for providing NT sets of selected values, wherein the selector (101) is operative for providing a mth set of selected values of the NT sets of selected values by selecting every (DNT)th value from a set of values comprised by the receive sequence starting with a mth value in the set of values, wherein D denotes a pilot spacing, a filter (105); for filtering the mth set of selected values to provide a mth set of filtered values comprising an estimate of the effective channel at points associated with the mth set of filtered values.